

11. Install the centrifugal clutch as described in this chapter.

12. Refill the engine with the recommended type and quantity oil as described in Chapter Three.

13. Adjust the clutch as described in Chapter Three.

### MANUAL CLUTCH INSPECTION

1. Clean all parts in a petroleum-based solvent such as kerosene and thoroughly dry with compressed air.

2. Measure the free length of each clutch spring as shown in **Figure 26**. Refer to **Table 1**. If any of the springs are worn to the service limit or less, replace all springs as a set.

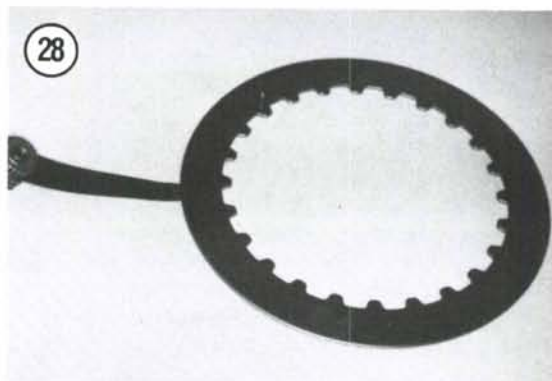
3. Measure the thickness of each friction disc at several places around the disc as shown in **Figure 27**. Refer to **Table 1**. Replace any disc that is worn to the service limit or less. For optimum performance, replace all discs as a set even if only a few need replacement.

4. Check the clutch plates for warpage with a flat feeler gauge and a surface plate such as a piece of plate glass (**Figure 28**). Refer to **Table 1**. Replace any that are warped to the service limit or more. For optimum performance, replace all plates as a set even if only a few need replacement.

5. Inspect the grooves and studs in the pressure plate (**Figure 29**). If either show signs of wear or galling the plate should be replaced.

6. Inspect the inner splines (**Figure 30**) and outer grooves (**Figure 31**) in the clutch center; if damaged, the clutch center should be replaced.

7. Inspect the gear teeth (**Figure 32**) on the clutch outer housing. Remove any small nicks on the gear teeth with an oilstone. If damage is severe, the clutch housing should be replaced.



8. Inspect the slots (**Figure 33**) in the clutch outer housing for cracks, nicks or galling where it comes in contact with the friction disc tabs. If any severe damage is evident, the clutch outer housing must be replaced.

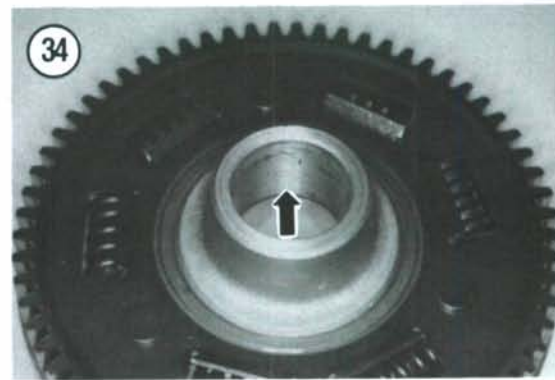
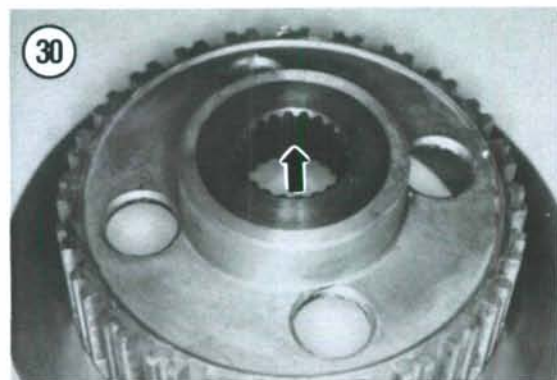
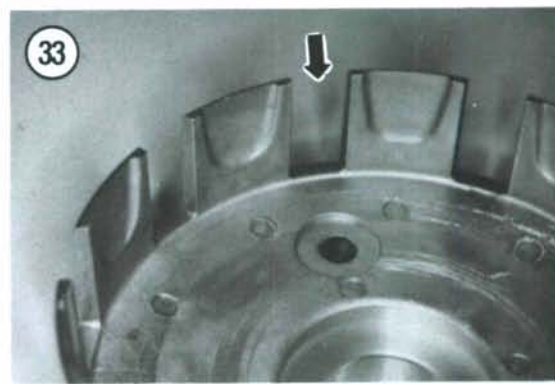
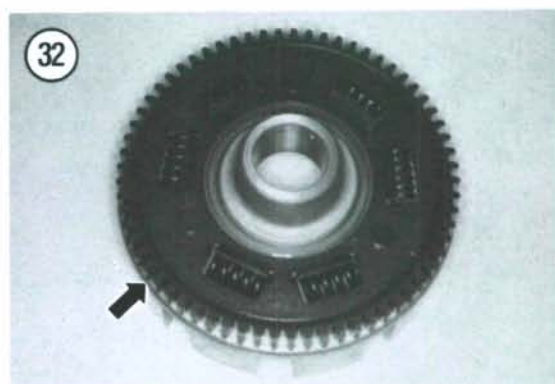
9. Inspect the bearing surface (**Figure 34**) in the clutch outer housing for wear or damage. If any severe damage is evident, the clutch outer housing must be replaced.

10. Measure the outside diameter of the clutch outer housing guide (**Figure 35**) with a vernier caliper. Refer to **Table 1** and replace the guide spacer if worn to the service limit dimension or greater.

11. Measure the inside diameter of the clutch outer housing guide (**Figure 36**) with a vernier caliper. Refer to **Table 1** and replace the guide spacer if worn to the service limit dimension or less.

12. Inspect the lifter guide bearing (**Figure 37**). Make sure it rotates smoothly with no signs of wear or damage. Replace as necessary.

13. Measure the outside diameter of the transmission shaft where the clutch outer housing guide rides (**Figure 38**) with a vernier caliper. Refer to **Table 1**







and replace the transmission shaft if worn to the service limit dimension or less.

## CLUTCH LIFTING MECHANISM

The clutch lifting mechanism is located within the right-hand crankcase cover. When the gearshift lever is moved to shift gears, it also activates the clutch lifting mechanism releasing the clutch.

The clutch lifting mechanism can be removed with the engine in the frame.

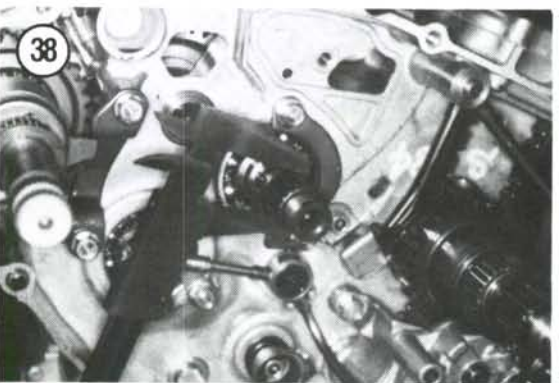
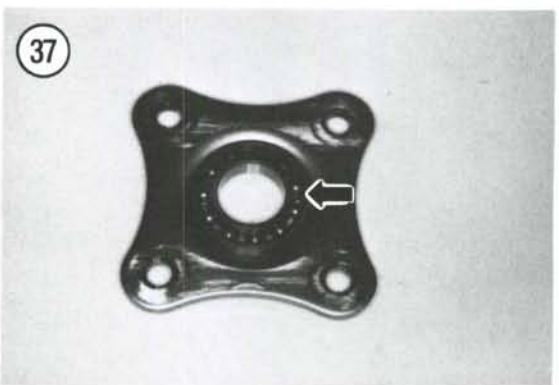
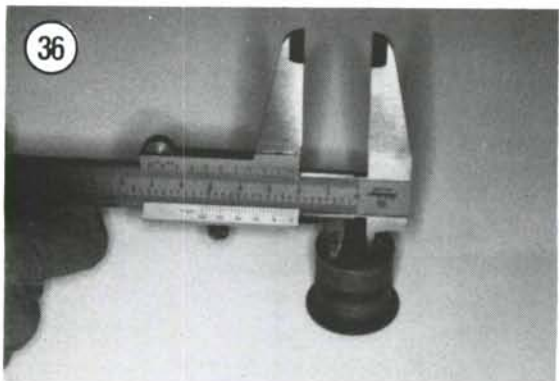
### Removal/Disassembly

Refer to **Figure 39** for this procedure.

1. Place the vehicle on level ground and set the parking brake.
2. Remove the right-hand crankcase cover as described in Chapter Four.
3. Remove the clutch lifter assembly (A, **Figure 40**) from the manual clutch.
4. Remove the clutch lever and washer (B, **Figure 40**) from the crankcase.
5. From the inside of the right-hand crankcase cover, remove clutch lifter.
6. From the outside of the right-hand crankcase cover, remove the adjusting screw locknut and washer (**Figure 41**).

### Inspection

1. Clean all parts in solvent and thoroughly dry with compressed air.
2. Inspect the balls (**Figure 42**) in the ball retainer. They must rotate freely in the ball retainer but not so loose that they would fall out. Check the balls for evidence of wear, pitting or excessive heat (bluish tint). Replace if necessary.
3. Inspect the grooves and inside surface of both the clutch lifter cam and clutch lifter where the balls ride (**Figure 43**). All surfaces must be smooth and free of burrs or scoring. Replace as necessary.
4. Check the locating notches on both the clutch lifter cam and clutch lifter. They must fit snugly onto their respective locators in the engine. Check for cracks in the corners of the notches. Replace as necessary.



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